



P.B.5818 - Patentlaan 2
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Erhalten
10.0KI.2002
Strehl et al.

Datum/Date

10.10.02

Zeichen/Ref./Réf.

EPA-39366

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

99940649.9-2207-JP9904790

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire
Hitachi, Ltd.

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☐ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
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**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

Application Number
EP 99 94 0649

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	PATENT ABSTRACTS OF JAPAN vol. 009, no. 332 (E-370), 26 December 1985 (1985-12-26) & JP 60 162432 A (MITSUBISHI DENKI KK), 24 August 1985 (1985-08-24) * abstract *	1-12	H02K9/08 H02K9/06 H02K9/10
E	EP 1 005 139 A (HITACHI LTD) 31 May 2000 (2000-05-31) * the whole document *	1-12	
X	GB 921 126 A (BBC BROWN BOVERI & CIE) 13 March 1963 (1963-03-13) * the whole document *	1,2,12	
X	DE 197 36 785 A (ABB RESEARCH LTD) 25 February 1999 (1999-02-25) * column 3, line 57 - column 4, line 42; figures 1,2 *	1-12	
X	US 4 182 966 A (HAMMER JOEL B ET AL) 8 January 1980 (1980-01-08) * column 3, line 22 - column 4, line 64; figures 1,3 *	1-12	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H02K
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11, 30 September 1998 (1998-09-30) & JP 10 150740 A (HITACHI LTD), 2 June 1998 (1998-06-02) * abstract; figure 1 *	1,2,12	
X	US 4 264 834 A (ARMOR ANTHONY F ET AL) 28 April 1981 (1981-04-28) * column 3, line 12 - line 36; figure 1 *	1-12	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search MUNICH		Date of completion of the search 26 September 2002	Examiner Mayer-Martin, E-M
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

1

EPO FORM 1503 03.82 (P04C04)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 94 0649

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26-09-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 60162432	A	24-08-1985	KR	8906992 Y1	13-10-1989
EP 1005139	A	31-05-2000	JP	3289698 B2	10-06-2002
			JP	2000224808 A	11-08-2000
			EP	1005139 A2	31-05-2000
			JP	3289721 B2	10-06-2002
			JP	2000333408 A	30-11-2000
			JP	3289722 B2	10-06-2002
			JP	2000333413 A	30-11-2000
			JP	2000333414 A	30-11-2000
			JP	2000333412 A	30-11-2000
			US	2002101121 A1	01-08-2002
			US	6201323 B1	13-03-2001
			US	6262501 B1	17-07-2001
			US	6265795 B1	24-07-2001
			US	6262502 B1	17-07-2001
			US	6359351 B1	19-03-2002
GB 921126	A	13-03-1963	CH	373810 A	15-12-1963
DE 19736785	A	25-02-1999	DE	19736785 A1	25-02-1999
			BR	9803762 A	23-11-1999
			CN	1209674 A	03-03-1999
			CZ	9802677 A3	14-04-1999
			EP	0899856 A2	03-03-1999
			HU	9801901 A2	28-04-1999
			JP	11122872 A	30-04-1999
			PL	328109 A1	01-03-1999
			US	6097116 A	01-08-2000
US 4182966	A	08-01-1980	BE	843023 A1	16-12-1976
			CA	1050599 A1	13-03-1979
			CH	599705 A5	31-05-1978
			DE	2626518 A1	30-12-1976
			ES	448906 A1	01-07-1977
			FR	2315188 A1	14-01-1977
			GB	1556672 A	28-11-1979
			IT	1105553 B	04-11-1985
			JP	52001403 A	07-01-1977
			NO	762065 A ,B,	17-12-1976
			SE	7606888 A	17-12-1976
JP 10150740	A	02-06-1998	NONE		
US 4264834	A	28-04-1981	CH	617047 A5	30-04-1980
			DE	2724420 A1	15-12-1977

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 94 0649

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26-09-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4264834 A	FR	2353982 A1	30-12-1977
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